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(22) Application Date:	March 18, 1992	(72) Inventor:	Hiroshi 5687-3 Ibaragi	Sakate	-maciti, ∣	Mizuk aido-s iti.

(54) [Title of the Invention] LIP COAT

[Obj ct] To provide a lip coat that, when applied on top of conv ntional lipstick, prevents the lipstick from coming off, i.e., gives it good lasting power, is not sticky, is easy g r move when removing the makeup, and does not irritate the lips.

[Constitution] A blend of 10-80 percent by weight of an alkylsil xysilicate component, a solid silicons having the structure (R,Si),O nSiO, (R: alkyl group), where the Ityl group is a methyl group (CH₂) and/or ethyl group (C₂H₀), and 20-90 percent by weight of a low-viscosity silicone oil component with a viscosity of no more than 10 © (25°C).

[Claim 1] Lip cost characterized by the fact that it Contains component (a), which is provided with the structure described hereinbel w, and component (b):

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(b) a l w-viscosity silicons oil with a viscosity of no more than 10 cs (25°C).

B: Alkyl group Structure of [B] cool in Claim 1, wherein the (R₃Si)₂O nSiO₂ alkylsiloxysilicate's alkyl group is a methyl group (CH3) and/or ethyl group (C2H6), and n ranges from 1 to 5. [Claim 3] Lip coat in Claims 1 and 2, characterized by the fact that it contains 10-80 percent by weight of component (a) and 20-90 percent by weight of component

[Detailed Description of the Invention]

[Industrial Field of Application] The present invention relates to lip costs. More specifically, it relates to lip coats in which a cosmetic containing a combination of solid alkylsiloxysilicate and low-viscosity silicons oil with no more than a specified viscosity is applied on top of conventional lipstick. The lip cost prevents lipstick from coming off, i.e., gives it good lasting power, is not sticky, is easy to remove when removing makeup, and does not imitate the lips.

[Prior Art] Products known as lip cost or lip sealer are polied on top of lipstick to prevent the lipstick from c ming off, i.e., to improve its lasting power. Resin-type, Wan-type, and latex-type lip coats, comprising a filmforming agent, solvent, and film-adjusting agent, are

[0003] It is known to use components listed in standards such as Cosmetic Materials (Standards for Cosmetic Materials [Keshohin Genryo Kijun]) and Unlisted Cosmetic Materials (Components not Listed in the Standards for Cosmetic Materials (Keshohin Genryo Kijun-gai Seibun Kikakul) in the prior art tip costs. (1) Resin-type tip cost . 40 comprises organic solvent such as ethyl alcohol or isopropyl alcohol as the solvent; resin soluble in the solvent such as shellac, rosin, or rosin ester as the filmforming agent; and polyhydric alcohol soluble in the s Ivent such as glycerol or propylene glycol and/or oil soluble in the solvent such as animal or vegetable oil, for example, mink oil, caster oil, and avocado oil, synthetic ester, or the like as the film-adjusting agent.

[0004] (2) Wax-type lip cost comprises low-melting-point is paraffin as a solvent; wax soluble in the solvent such as ceresin, carnauba wax, or microcrystalline wax as the film-forming agent; and oil soluble in the solvent (such as) animal or vegetable oil, for example, squalana, lanolin, jojoba oil, or petroleum jelly, or synthetic ester as the film-

[0005] (3) Latex-type lip coat c mprises water as the solvent; a latex or emulsion latex such as ethyl acrylateethyl methacrylate copolymer, octyl acrylate-styrens copolymer, or methyl methacrylate-butyl acrylate-octyl acrylate copolymer as the film-forming agent; and

polyhydric alcohol soluble in the solvent such as glycerol and propylena glycol as the film-adjusting agent.

[Problems To Be Solved by the Invention] H wever, such lip coats known in the art are not satisfactory because they do not prevent lipstick from oming off, i.g., they do not give lipstick lasting power, and they premote stickiness, are difficult to remove when removing makeup, irritate the lips, and peel from the underlying makeus. Thus, the industry desires the development of a lip cool that, when applied on top of lipstick, prevents lipstick from coming off, i.a., gives it good lasting power, is not sticky, is easy to remove when removing makeup, and does not irritate the lips.

[Means of Solving the Problems] The inventors devoted 100071 extensive research simed at overcoming these problems. As a result, they discovered that a lip coat which, when applied on top of lipstick, prevents the lipstick from coming off, i.e., gives it good testing power, is not sticky, is easy to remove when removing makeup, and does not irritate the lips can be obtained by combining solid alkylsiloxysilicate as part or all of the tip coof's filmforming agent, low-viscosity silicons oil as part or all of the solvent, and a synthetic ester soluble in low-viscosity silicona oil as the film-adjusting agent or by combining alkylsiloxysilicate as part or all of the film-forming againt and low-viscosity silicons oil as part or all of the solvent. This discovery led to the present invention. Lip cools featuring a combination of solid alkylsiloxysilicate and lowviscosity silicons oil are unknown in the prior ont. Thus, the present invention provides a lip coat characterized by the fact that it contains (a) and (b):

(a) solid alkylsiloxysilicate

(b) low-viscosity silicons oil with a viscosity of no more

[0008] The alkylsiloxysilicate (a) used in the present invention is trialkylsiloxysilicate, (R₃Si)₃O nSiO₃, whore the R- alkyl group is a methyl group (CH₃) and/or ethyl group (C2H01, and a ranges from 1 to 5. The substance is solid at room temperature and is usually o predominantly white powder or mess. The low-viscosity silicons oil (b) with a viscosity of no more than 10 ea (25°C) used in the present invention is methyl which may be a cyclic polymer ((CH₃+2SiO), where a ranges from 3 to 6 or a straightchain polymer (CH₃)₃SiO-((CH₃)₃SiO]₃-OSi(CH₃)₃ (illegites), where n ranges from 1 to 12.

[0009] Alkylsiloxysilicate is blended in amounts of preferably 10-80 percent by weight, more preferably 30-60 percent by weight, of the entire composition. If less than 10 percent by weight is used, the effect of the invention is not obtained, and if more than 80 percent by weight is used, the composition loses liquidity, compr mising its utility as a cosmetic. Low-viscosity silicone oil with a viscosity of no more than 10 cs is bl nded in amounts of preferably 20-90 percent by weight, more preferably 40-70 percent by weight, of the entire composition. If I se than 20% by weight is used, the composition loses liquidity, compromising its utility as

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a cosmetic, and if more than 90 percent by w ight is used, too little fitte film-forming agent is blended into the composition, and the effect of the invention cannot be obtained. Silicons oil with a viscosity f more than 10 co (25°C), wax, and the like may be used in addition to the solid alkylsiloxysilicate and low-viscosity silicons oil with a viscosity of no more than 10 cs (25°C), which are the essential components of the lip coat of the invention. In addition, components listed in the publications such as Cosmetic Materials and Unlisted Cosmetic Materials of

Glycerol

(3)

selected as appropriate for blending into the lip coating of the invention, examples including approved pigments, synthetic stem, oil, beauty components, fragrances, antioxidants, preservatives, and ultraviolet absorbant, 100101

[0010]
[Working Examples] Working examples are used hereinbelow to describe the present invention, but the invention is not limited in any way to the formulations or viscosities in the examples.

olid alkylsiloxysilicate and low-viscosity silections and low-viscosity silections than 10 cs (25 °C), which are that viscosity of no more than 10 cs (25 °C), which are that viscosity of no more than 10 cs (25 °C), which are that viscosity of no more than 10 cs (25 °C), which are that viscosity of that invention. In the publications such as addition, components listed in the publications such as addition, components and Unlisted Cosmetic Materials of Cosmetic Materials and Unlisted Cosmetic may be components approved for use in cosmetics may be	hereinbelow to describe in any way to invention is not limited in any way to viscosities in the examples. 10 Working Example 1 Inventive Product 1		
Component (Percentage by Weight)		೩.50 52.0	
	•	3.0	
		Trace	
Tidama is criticism		100.0	
(4) Red No. 225	Total C. Add "b" to "a" and mix until	uniform.	
	c. Add "b" to a and this of the d. Package "c" in contains.		
(Manufacturing Method)			
(Manufacturing with (1) into (2). Melt and mix (1) into (3).	[0011] Working Example 2		
b. Welt and max 147 with	Inventive Product	2	
Component (Percentage by Weight)		30.0	
		35.0	
(1) Trimethylsiloxysilicata (2.3 cs)	·	35.0	
(1) Trimethylsiloxysilicata (2) Octamethylcyclopentasiloxana (2.3 cs) (3) Methyl polysiloxana (2.0 cs)		100.0	
(3) Methyl polysioders (5	Total		
(Manufacturing Method) a. Mek (1) - (3) and mix until uniform. b. Package °a° in containers.	(Reference Examples) Reference Example 1 Comparative Product 1		
Component (Percentage by Weight)	Comparative	12.0 84.0 4.0	
(1) Shelloc			
(2) Ethyl alcolu		100.0	
100	Total c. Package "b" in containan.	•	
(Manufacturing Method)	(0013) Reference Example 2		
a. Wix and mix until uniterm.	Comparative Prod	uct 2	
b. Add (3) to a structure of the contage by Weight		10.0	
	•	8.0	
(1) Polyethylene powder		77.0 5.0	
Microcrystaline			
in leasefaith		100.0	
(4) Petroleum jelly	Total b. Package "a" in containers	and cod.	
(Manufacturing Method) a. Heat and melt (1) and (2) into (3) and (4).	(0014) Reference Example 3	•	
a. Heat and meet	Comparative Pro	duct 3	
Component (Percentage by Weigh	rt)	60.0	
and accordate ethyl methacrylate copoly	mer emulsion	33.0 7.0	
11-007		100.0	
(2) Water		100.0	

T tal

(Manufacturing Method)

Mix (1) into (2).

Mix (3) into "a" until uniform. ۵.

Package "b" in containers. ۵.

[Evaluation] Inventive Products 1 and 2 obtained in W rking Examples 1 and 2, respectively, and Comparative Producto 1-3 obtained in Reference Examples 1-3, I spectively, were wear-tested by 20 woman for valuation.

Good: 3 points Foir: 2 points Poor: 1 point (Evaluation) Mean score of at least 2.5 points O Mean score 11.5-2.5 points Mean score of less than 1.5 points ... x Evaluation of Working Examples

(Evaluation Criteria)

eria)	Inventive Product 1 of	Inventive Product 2
Items Evaluated	Working Example	of Working Example
Good lasting power Not sticky Easy to remove Not irritating	0 0 0 0	0 0 0

(0017)

Evaluation of Reference Examples

ference Examples Items Evaluated	Comparative Product 1 of Reference	Comparative Product 2 of Reference Example	Comparative Product 3 of Reference Example
Good lesting power	Example O A	х Д	n n
Easy to remove Not irritating	ж ж	x x x x x x x x x x x x x x x x x x x	tion) The lip cost of th

In the evaluation, Comparative Product 1 was difficult to remov and showed marked irritation of the lips; Comparative Product 2 was sticky and showed marked irritation of the lips; and Comparative Product 3 was sticky and had poor lasting power. By contract, the products of the invention showed excellent lasting power, w re not sticky, were easy to remove with the makeup, and did not irritate the lips.

[0018]

[Effect of the Invention] The lip cost of the invention is an extremely useful product that, when applied on top of lipstick, prevents lipstick from coming off, i.a., gives it good lasting power, counteracts stickiness, is easy t remove with the makeup, and does not irritate the lips.